

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

08/23/2002

Attn Gregory D Allen Office of Intellectual Property Counsel 3M Innovative Properties Company P O Box 33427 St Paul, MN 55133-3427

EXA	AMINER
MARCHESC	CHI, MICHAEL A
ART UNIT	CLASS-SUBCLASS
1755	051-309000

DATE MAILED: 08/23/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/618,876	07/19/2000	Anatoly Z. Rosenflanz	55763USA3A	1595

TITLE OF INVENTION: FUSED AL203-Y203-ZRO2 EUTECTIC ABRASIVE PARTICLES, ABRASIVE ARTICLES, AND METHODS OF MAKING AND USING THE SAME

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$0	\$1280	11/25/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

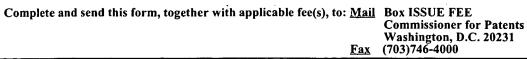
☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL



			Fax	Washington, 1 (703)746-4000		
appropriate. All further con	respondence including the below or directed otherwi	Patent, advance orders	EE and PUBLIC and notification	ATION FEE (if r	equired). Blocks 1 through 4 es will be mailed to the currer ess; and/or (b) indicating a sep	it correspondence address as
CURRENT CORRESPONDENCE	E ADDRESS (Note: Legibly mark	-up with any corrections or use E	Block ()		te of mailing can only be used t	
7590 08/23/2002 Attn Gregory D Allen				accompanying p	tal. This certificate cannot apers. Each additional paper, must have its own certificate of	such as an assignment or
Office of Intellectual Property Counsel 3M Innovative Properties Company P O Box 33427 St Paul, MN 55133-3427			Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.			
3.1 a, 1						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FIRS	T NAMED INVEN	TOR ATTORNEY DOCKET NO. CONFIRMATION NO.		
09/618,876	07/19/2000	Ar	natoly Z. Rosenfla	ınz	55763USA3A	1595
USING THE SAME	OSED ALZO3-YZO3-ZR	OZ EUTECTIC ABRA	SIVE PARTICL	ES, ABRASIVE A	RTICLES, AND METHODS	JF MAKING AND
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBL	CATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280		\$0	\$1280	11/25/2002
EXAMI	NER	ART UNIT	CLASS-SUBCI	ASS		
MARCHESCHI,	MICHAEL A	1755	051-30900	0		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. Ch						
PLEASE NOTE: Unless a been previously submitted (A) NAME OF ASSIGNED Please check the appropriate	to the USPTO or is being s E	submitted under separate (B) RE	cover. Completion	n of this form is NO	assignee data is only appropria T a substitute for filing an assi COUNTRY) Country Corporation or other private a	gnment.
4a. The following fee(s) are	enclosed:		ment of Fee(s):			
☐ Issue Fee				of the fee(s) is enc		
☐ Publication Fee ☐ Advance Order - # of C	onice	•	ent by credit card. Form PTO-2038 is attached. Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to			
		Deposit	Account Numbe	r	(enclose an extra copy of this sly paid issue fee to the applica	torm).
(Authorized Signature)		(Date)				
NOTE; The Issue Fee and other than the applicant; interest as shown by the red	a registered attorney or a cords of the United States I	gent; or the assignee or Patent and Trademark Of	other party in fice.			
This collection of informa obtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark Offinor Send FEES OR Commissioner for Patents, Under the Paperwork Research	es to complete, including n to the USPTO. Time we the amount of time you his burden, should be senter, U.S. Department of C. COMPLETED FORMS Washington, DC 20231.	gathering, preparing, and 'ill vary depending upor require to complete th to the Chief Informatic ommerce, Washington, I TO THIS ADDRESS	of submitting the state of the individual is form and/or on Officer, U.S. D.C. 20231. DO S. SEND TO:			
Under the Paperwork Re- collection of information u	nless it displays a valid ON	AB control number.	,			



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09/618,876	07/19/2000	Anatoly Z. Rosenflanz	55763USA3A 1595	
. 75	. 08/23/2002		EXAMIN	ER
Attn Gregory D Allen			MARCHESCHI, MICHAEL A	
Office of Intellectu 3M Innovative Pro	al Property Counsel perties Company	·	ART UNIT	PAPER NUMBER
P O Box 33427			1755	
St Paul, MN 55133-3427		· DA	TE MAILED: 08/23/2002	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



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09/618,876	07/19/2000	Anatoly Z. Rosenflanz 55763USA3A		1595
75	590 08/23/2002		EXAMINI	EŖ
Attn Gregory D A	Allen		MARCHESCHI, N	MICHAEL A
Office of Intellectu 3M Innovative Pro	al Property Counsel perties Company		ART UNIT	PAPER NUMBER
P O Box 33427			1755	
St Paul, MN 55133 UNITED STATES		•	DATE MAILED: 08/23/2002	

Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
	09/618,876	ROSENFLANZ, ANATOLY Z.
Notice of Allowability	Examiner	Art Unit
	Michael A Marcheschi	1755
	Michael A Marcheschi	1755
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to all the previous amen	dments and amendment of 6/7/02.	
2. The allowed claim(s) is/are <u>2-28,30-35,41 and 44-89</u> .		
3. The drawings filed on are accepted by the Examine	r.	
4. ☐ Acknowledgment is made of a claim for foreign priority unda) ☐ All b) ☐ Some* c) ☐ None of the:	er 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority documents have 	been received.	
2. Certified copies of the priority documents have	been received in Application No	·
3. Copies of the certified copies of the priority doc	cuments have been received in this r	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
5. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. § 119(e) (to a provision	onal application).
(a) The translation of the foreign language provisional a	• •	
6. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. §§ 120 and/or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t	his application. THIS THREE-MON	ITH PERIOD IS NOT EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which gives reas		
 CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto er 2) ☐ to Paper No. 9. 		
(b) ☐ including changes required by the proposed drawing of	correction filed, which has be	een approved by the Examiner.
(c) ☐ including changes required by the attached Examiner	s Amendment / Comment or in the C	Office action of Paper No
Identifying indicia such as the application number (see 37 CFR 1. of each sheet. The drawings should be filed as a separate paper		
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR TI		
Attachment(s)		
 1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 ☑ Information Disclosure Statements (PTO-1449), Paper No. 17 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4⊠ Interview Summa 7. 6⊡ Examiner's Amer	Il Patent Application (PTO-152) ary (PTO-413), Paper No. <u>19</u> . Indment/Comment ment of Reasons for Allowance
	MICHAE! PRIVAR	MACKESTHI EXAMPLER

//

Application/Control Number: 09/618,876

Art Unit: 1755

The following is an examiner's statement of reasons for allowance:

Not withstanding applicants arguments with respect to the abrasive particle and specified nominal grade limitations defined in the response filed 6/12/02, the examiner now finds the claimed invention to be novel over the cited reference because said references <u>fail to teach the specifically claimed eutectic composition of the instant claims</u>. Although the examiners previous rejections have been all based on the references as teaching the claimed eutectics, after further review of the references, the examiner interprets the reference teachings of a eutectic as that of a conventionally known eutectic (i.e. alumina/zirconia eutectic) and **not** a eutectic which is formed from any and all of the components defined in the broad listing according to the references. In other words, the prior art **does not** suggest that the claimed components (components of the independent claims) form a eutectic, thus the instant claims are novel with respect to the claimed eutectic composition.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael A Marcheschi whose telephone number is (703) 308-3815. The examiner can normally be reached on M-F (8:00-5:30) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark L Bell can be reached on (703) 308-3823. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9311 for regular communications and (703) 872 9310 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

MICHAEL MAPSHOSCHI PRIMARY PLASSINER